

# Recovery Plan Action Status

Plan Name: Madison Cave Isopod

Plan Status: Final

Plan Date: 30-Sep-96

Lead Agency: USFWS

Lead Office: Virginia Ecological Services Field Office

(804)

693-6694 )

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Madison Cave isopod (Antrolana lira)	1	1	Determine the number of genetic populations	Ongoing Current	FY 1995 - FY 1999		Virginia Department of Game and Inland Fisheries, Virginia Natural Heritage Program, Region 5, Division of Ecological Services, Cave Conservancy of the Virginias, National Service Foundation	Work type not yet selected	Graduate Student	
Madison Cave isopod (Antrolana lira)	3	10	Implement a program to facilitate recovery progress	Ongoing Current	FY 2007		The Nature Conservancy, VA Cave Board , Virginia Department of Game and Inland Fisheries, Virginia Natural Heritage Program, Region 5, Division of Ecological Services, Cave Conservancy of the Virginias	Work type not yet selected	Internal Technical Assistance	Additional 1.5/yr x 7 yrs
Madison Cave isopod (Antrolana lira)	1	2	Delineate the recharge zones of the isopod's deep karst aquifer habitat	Ongoing Current	FY 2007		U.S. Geological Survey, Contract , Virginia Department of Game and Inland Fisheries, Virginia Natural Heritage Program, Region 5, Division of Ecological Services	Work type not yet selected	Internal Technical Assistance	Additional 25/yr x 2yrs
Madison Cave isopod (Antrolana lira)	1	3	Monitor the effects of land use patterns on potential and identified recharge zones of deep karst aquifers	Ongoing Current	FY 2007		U.S. Geological Survey, Contract , Environmental Protection Agency , Virginia Department of Game and Inland Fisheries, Virginia Natural Heritage Program, Region 5, Division of Ecological Services	Work type not yet selected	Contract	Additional 10/yr x 7 yrs

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Madison Cave isopod (Antrolana lira)	2	4	Search for additional populations	Ongoing Current	Prior to FY 1995		VA Cave Board , Virginia Department of Game and Inland Fisheries, Virginia Natural Heritage Program, Region 5, Division of Ecological Services	Work type not yet selected	Contract	Additional 5/yr x 2 yrs
Madison Cave isopod (Antrolana lira)	2	5	Enforce existing regulations to protect A. lira and its deep aquifer habitat	Ongoing Current	Prior to FY 1995		VA Cave Board , Virginia Department of Game and Inland Fisheries, Region 5, Division of Ecological Services	Management: General	Internal Technical Assistance	Additional 1/yr x 7 yrs
Madison Cave isopod (Antrolana lira)	2	6	Encourage cooperation among landowners and governmental and nongovernmental agencies in working toward long-term protection of A. lira and its habitat	Ongoing Current	FY 2007		The Nature Conservancy, VA Cave Board , Virginia Department of Game and Inland Fisheries, Virginia Natural Heritage Program, Region 5, Division of Ecological Services, Cave Conservancy of the Virginias, The Virginia Region of the National Speleological Society	Work type not yet selected	Contract	Additional funds as needed. Working w/Dominion Virginia Power on an HCP, a conservation easement will be established on a parcel of MCI habitat.
Madison Cave isopod (Antrolana lira)	2	7	Characterize the habitat requirements of A. lira and monitor habitat conditions	Not Started			Contract , Virginia Department of Game and Inland Fisheries, Virginia Natural Heritage Program, Region 5, Division of Ecological Services	Work type not yet selected	Labor type not yet selected	
Madison Cave isopod (Antrolana lira)	2	8	Estimate population size and monitor population trends	Ongoing Current	FY 1995 - FY 1999		Contract , Virginia Department of Game and Inland Fisheries, Virginia Natural Heritage Program, Region 5, Division of Ecological Services	Work type not yet selected	Contract	Additional 3.5/yr x 7 yrs

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Madison Cave isopod ( <i>Antrolana lira</i> )	2	9	Develop methods for and conduct life history and population viability studies	Not Started			Contract , Virginia Department of Game and Inland Fisheries, Virginia Natural Heritage Program, Region 5, Division of Ecological Services	Work type not yet selected	Labor type not yet selected	Additional 2/yr x 7yrs